

US EPA RECORDS CENTER REGION 5



559556

**Screening Site Inspection
Final Report
for**

**Rueben Murrell Site
ILD 984 769 240**

February 23, 1993

**B&V Waste Science and Technology Corp.
101 North Wacker Drive
Suite 1100
Chicago, Illinois 60606**

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1.0 Introduction

On August 7, 1991, B&V Waste Science and Technology Corp. was authorized by approval of the Work Plan by the U.S. Environmental Protection Agency (USEPA), Region V, to conduct a screening site inspection (SSI) of the Rueben Murrell site in Macon County, Illinois.

The site was initially placed on the Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS) on February 10, 1989 as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA).

The site received its initial Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) evaluation in the form of a Preliminary Assessment (PA) report completed by Karen Petefish of the IEPA on September 21, 1989. The sampling portion of the SSI was conducted on January 8, 1992, when the sampling team collected four soil samples.

The purposes of the SSI have been stated by the USEPA in a directive outlining pre-remedial program strategies. Essentially, the directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score; 2) to establish priorities among sites most likely to qualify for the NPL (National Priorities List); and 3) to identify the most critical data requirements for the listing [expanded] SI step. A Screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned) [currently designated SEA (site evaluation accomplished)] or carried forward as an NPL candidate. A listing [expanded] SI will not automatically be done on these sites. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act) ... Sites that are designated as NFRAP [SEA] or deferred to other statutes are not candidates for a listing [expanded] SI.

The listing [expanded] SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development.

Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing [expanded] SI (USEPA, 1988).

USEPA Region V requested B & V Waste Science and Technology Corp. to identify sites during the SSI that may require removal action to remediate an immediate human and/or environmental threat.

2.0 CERCLA Site Description

2.1 Introduction

This section includes information obtained during the SSI and from reports of previous activities involving this site.

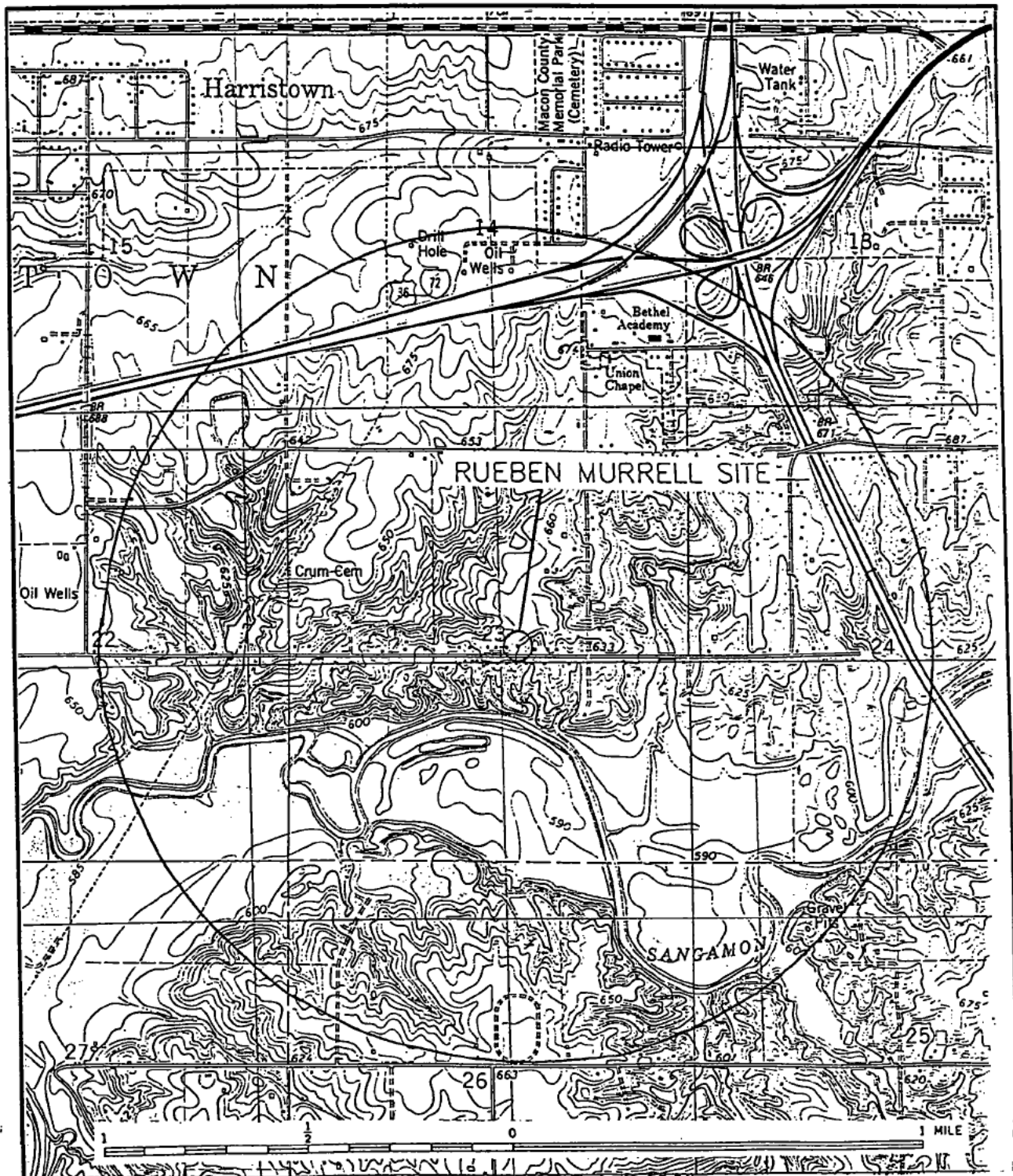
2.2 Site Description

The Rueben Murrell site is on Hill Road southwest of Decatur, Illinois. The 17 acre site lies in the northeast quarter of Section 23, Township 16 North, Range 1 East in the Third Principal Meridian, Macon County, Illinois. Figure 2-1 is a Site Location Map and Figure 2-2 is a Site Sketch.

The Rueben Murrell site is in a rural area outside of Decatur, Illinois. Decatur has a population of 84,000 (U.S. Department of Commerce, 1991). The property is bordered on the east and west by residential homes, on the south by Hill Road and more residences, and on the north by farmland. Access to the site is gained by a driveway off of Hill Road. A barbed wire fence in poor condition surrounds most of the site. The city of Decatur is about five miles east of the site.

Site topography is generally flat except for the southern part of the property, which slopes down toward Hill Road. Surface water runoff is towards the Sangamon River, which is 900 feet south of the site.

Two buildings are on the site: the Murrell residence and a three car garage. Oil stains were observed on the driveway and nearby soils. Oil stains were the heaviest in front of the garage. Scrap metal, vehicle parts, and old tires were among the items littering the driveway. North of the buildings is a horse pasture surrounded by a fence. Two trash piles with pallets, scrap metal, tires, empty drums, and other items are inside the fence.



SOURCE:
USGS Topographic Map, 1982
Harristown Quadrangle

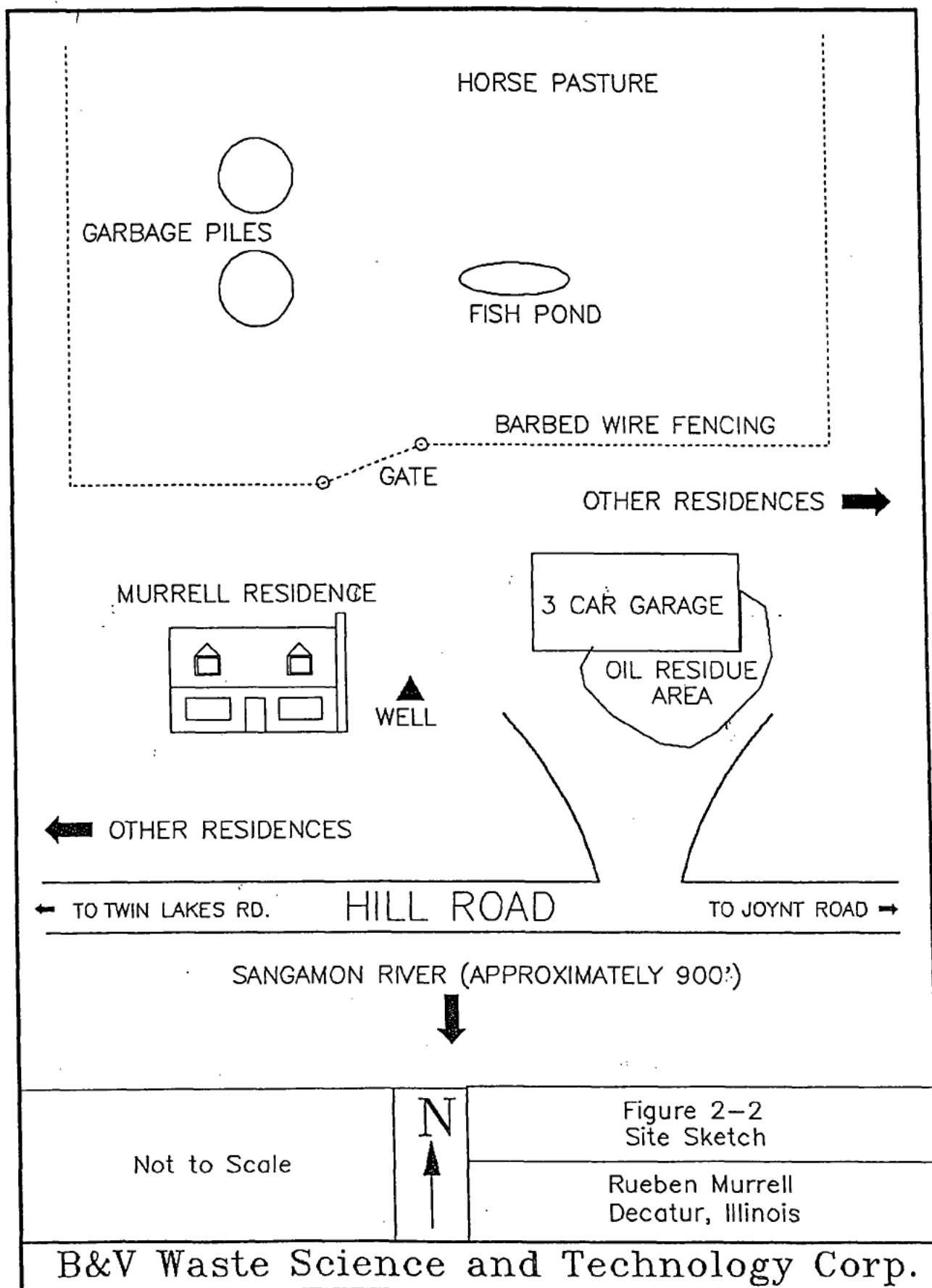
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Figure 2-1
Site Location Map

Rueben Murrell
Decatur, Illinois

B&V Waste Science and Technology Corp.



2.3 Site History

2.3.1 *Operational History*

Rueben Murrell purchased the site from Arnold Murrell, his brother. Before its use as a private residence, the site was probably undeveloped.

The site is used as a private residence. Complaints filed at the Macon County Health Department allege the Murrells allow trash dumping on their property. There is no record of the disposition of the complaints as the court records were dismissed and destroyed on May 4, 1984 (Decatur, States Attorney Office, 1993). There are no violations currently pending against the Rueben Murrell site (Macon County Health Department, 1993). Two trash piles, of unknown source, were observed north of the residence.

2.3.2 *Summary of Onsite Environmental Work*

Other than the IEPA Preliminary Assessment, there is no evidence of any environmental work on the property, past or present.

2.4 Applicability of Other Statutes

Rueben Murrell is listed in the CERCLIS site listing for Illinois (USEPA, 1992a). The site is not listed as a RCRA notifier in Illinois (USEPA, 1992b).

3.0 Site Inspection Activities and Analytical Results

3.1 Introduction

This section outlines procedures utilized and observations made during the SSI conducted at the Rueben Murrell site. Sampling activities were in accordance with the Quality Assurance Project Plan (QAPjP), dated September 27, 1991.

Appendix B presents the USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13).

Samples collected for this SSI were analyzed for organic and inorganic substances contained on the USEPA Target Compound List (TCL) and Target Analyte List (TAL), by USEPA contract laboratory program (CLP) participant laboratories. Appendix C presents the TCL and TAL. Appendix D presents a summary of all analytical data generated by SSI sampling is presented in Appendix D of this report. Appendix E contains photographs of the site and sample locations.

3.2 Site Reconnaissance

On September 18, 1991, a site reconnaissance of the Rueben Murrell site was conducted. This visit included a visual inspection of the site to determine the site status, delineate facility activities, identify potential sampling locations, and to determine any health or safety hazards.

3.3 Site Representative Interview

Mr. Rueben Murrell and his son, Mr. Rueben Murrell Jr. were interviewed by the reconnaissance team on September 18, 1991 at the Rueben Murrell site in Decatur, Illinois. The reconnaissance team discussed the purpose of the SSI with the Murrells, and gathered site specific information. The Murrells stated that the IEPA had not visited their residence, only the landfill on a hill southeast of the residence. The reconnaissance team informed the Murrells that this screening site inspection is concerned with the residence of Mr. Rueben Murrell.

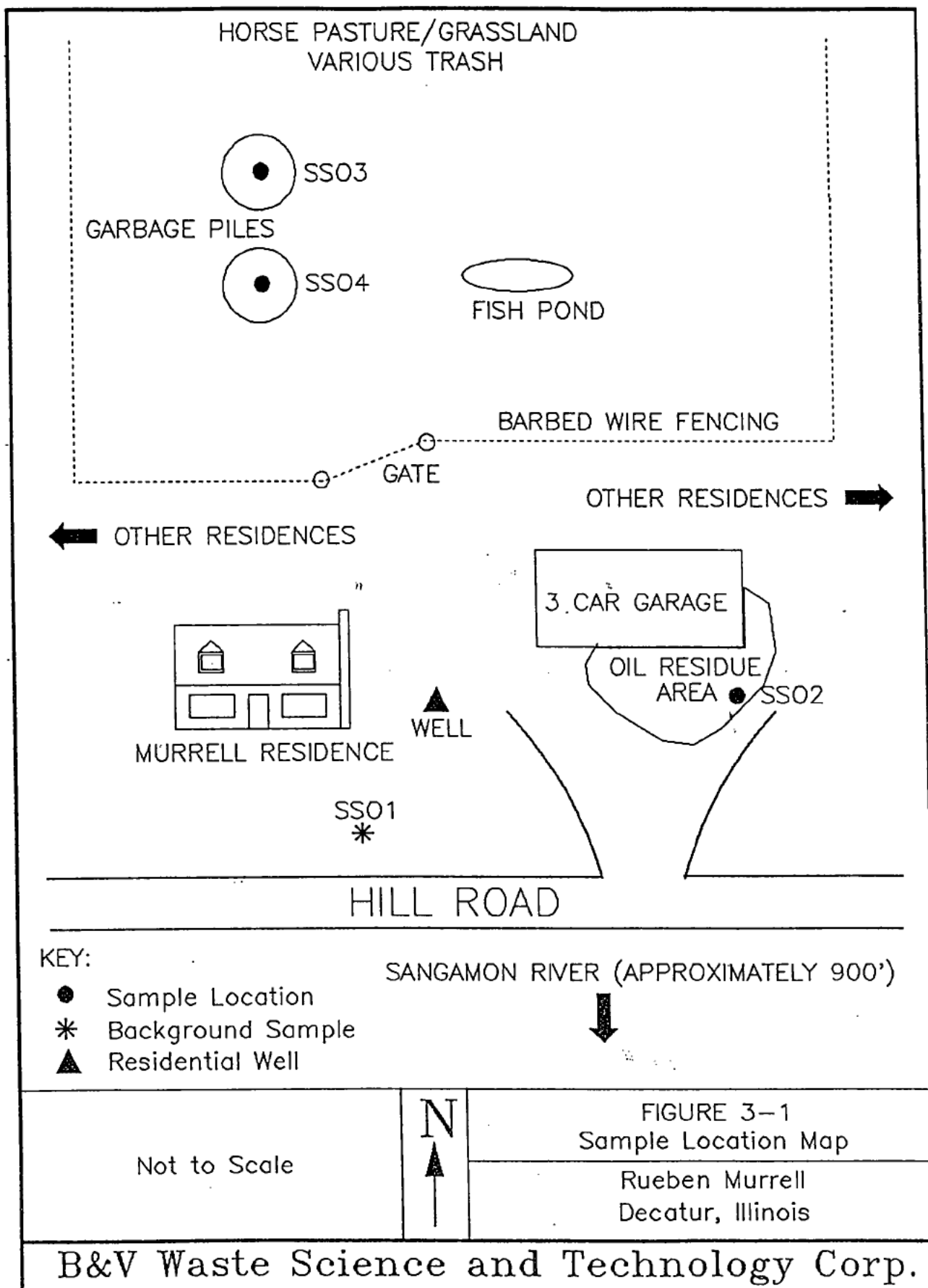
3.4 Soil Sampling

On January 8, 1992, a field team collected four soil samples. Figure 3-1 shows the location of each sample, Table 3-1 provides sample locations and descriptions.

Soil samples were collected with clean, stainless steel spoons. Samples were placed in sample jars provided by USEPA CLP participant laboratories. Rueben Murrell did not split samples collected by the field team.

Table 3-1 Sample Summary				
Sample #	Matrix	Depth	Appearance	Location
SS01	Surface Soil	0-6 inches	Medium brown color	Front yard of the Murrell residence. Sample was taken south of the residence.
SS02	Surface Soil	0-6 inches	Dark in color, oily	Southeast corner, in front of the garage located at southeast corner of the site.
SS03	Surface Soil	0-6 inches	Thin layer of topsoil, light brown clay beneath	North trash pile. Sample taken along east side of trash pile.
SS04	Surface Soil	0-6 inches	Medium brown color	South trash pile. Sample taken along east side of trash pile.

Sample jars were labeled, packaged, sealed, and transported to USEPA CLP participant laboratories in accordance with procedures set forth in the September 27, 1991 QAPjP. Soil samples scheduled for organic analysis were shipped to Wadsworth/Alert Laboratories, Inc. in North Canton, Ohio, on January 8, 1992. Soil samples scheduled for inorganic analysis were shipped to IT Analytical Services-



Export in Export, Pennsylvania on January 8, 1992. Samples were analyzed for TCL and TAL substances under a routine analytical services request.

All reusable sampling and personal protective equipment (PPE) were decontaminated before transport offsite. Disposable sampling and PPE items were discarded in accordance with procedures outlined in the SSI project work plan and QAPjP.

A background sample, SS01, was collected in the front yard of the Rueben Murrell residence. This location was selected as representative of natural soil conditions in the area. Sample SS02 was taken from near the southeastern corner of the cinderblock, three-car garage, where the soil is stained and is oily in appearance. Samples SS03 and SS04 were taken from the two garbage piles in the Murrell's backyard. Sample SS04 came from the garbage pile which is located closest to the Murrell residence.

3.5 Analytical Results

This section summarizes analytical results from samples collected during the SSI. Appendix D presents all analytical data generated and tabulated in this SSI.

Volatiles were not detected in any of the surface soil samples. Sample SS02 is the surface soil taken from an area covered with an oily residue near the southeast corner of the Murrell's garage. This sample contained eight semivolatile compounds, including phthalates, polyaromatic hydrocarbons, and a phenol; three inorganic substances, one pesticide, and two congeners of PCB's. Samples SS03 and SS04 are surface soil taken from the east side of the two trash piles in the Murrell pasture. The sample from the northern most pile (SS03) contains one semivolatile compound, two isomers of a pesticide, one congener of PCB, and one inorganic substance. The sample from the southern most pile (SS04) contains three inorganic substances and one congener of PCB.

3.6 Key Samples

Key samples are those samples that contain substances in sufficient concentration to document an observed release. Table 3-2 identifies key samples taken during the SSI that meet these criteria as analytically significant.

Table 3-2 Key Sample Summary				
Analysis	Sample Location and Number			Background
Semi-volatile Compounds (ug/kg)	SS02	SS03	SS04	SS01
Butylbenzylphthalate	1100 J			460 U
Chrysene	650 J			460 U
Fluoranthene	1400 J			460 U
4-Methylphenol	1700 J			460 U
2-Methylnaphthalene	710 J			460 U
bis(2-Ethylhexyl)phthalate	4800 J			460 UJ
Benzo(b)Fluoranthene	610 J			460 U
Naphthalene		530		460 U
Phenanthrene	1400 J			460 U
Pyrene	1200 J			460 UR
Pesticides/PCBs (ug/kg)				
Alpha-Chlordane		5.9 JP		2.4 UJ
Gamma-Chlordane		11 JP		2.4 UJ
Endrin	10 JP			4.6 UJ
Aroclor-1242		510 JP		46 UJ
Aroclor-1248	810 J			460 J
Aroclor-1254	350 J		150 P	46 UJ
Metals (mg/kg)				
Beryllium	0.77 B			0.28 U
Cadmium	2.0		1.6 B	0.42 B
Cyanide		0.66 B	0.49 B	0.28 U
Lead	126		173	32

- U - Indicates compound was analyzed for but not detected.
- P - Indicates a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values was reported.
- J - Indicates an estimated value.
- B - Indicates the analyte is found in the associated blank.
- R - Indicates the sample results are rejected because quality control criteria were not met.

4.0 Characterization of Sources

4.1 Introduction

Analysis of samples collected during the SSI has led to the identification of one source pathway at the Rueben Murrell site: soil. The other pathways (groundwater, surface water, and air) were not sampled and there is no evidence to support another source.

4.2 Contaminated Soil

4.2.1 Description

Based on the analytical results of soil samples SS01-SS04 collected during the SSI sampling event, approximately one-and-one-half acres of soil are considered to contain chemicals of concern. This area includes the two garbage piles estimated at one-half acre a piece and the area (one-half acre) in front of the cinderblock garage. The total area of concern is defined by the location of key samples (SS01-SS04).

4.2.2 Waste Characteristics

SSI analytical results indicate the area of affected soil is contaminated with 11 semi-volatile compounds, six pesticide/PCBs, 3 metals, and cyanide. These chemicals, along with their respective concentrations are listed in Table 3-2.

4.2.3 Potentially Affected Migration Pathways

The chemicals of concern associated with the site appear to be affecting the soil pathway and could potentially affect the other three pathways. Groundwater could become affected by chemicals leaching through the soil, and the air pathway is of concern due to the possible distribution of chemicals in the form of windblown particulate matter.

4.3 Other Potential Sources Within 1 Mile

Three landfills may be within 1 mile of the site. Two of these landfills, whose locations were not verified, the Macon #2 and the Macon County Landfill are on the CERCLIS listing (USEPA, 1992a). The third is the unpermitted Murrell Landfill less than a half mile southeast of the site.

5.0 Discussion of Migration Pathways

5.1 Introduction

This section includes information useful to analyze the potential impact of contaminants found at the Rueben Murrell site, on the four migration pathways (groundwater, surface water, air and soil).

5.2 Groundwater

No groundwater samples were collected during the SSI sampling trip. Site-specific information on the geology of the Rueben Murrell site is not available.

The regional geology around the Rueben Murrell site is comprised of undifferentiated glacial drift units over sedimentary bedrock formations. A detailed statewide study by Berg and Kempton (1988) provides three-dimensional mapping of geological materials to a depth of 50 feet. Near the site, their map suggests the overburden is composed, in descending order, of the following sediments: less than 20 feet of loess, greater than 20 feet of loamy and sandy till, over discontinuous silty and clay till.

The subcropping bedrock is expected to be Pennsylvanian shale with the sandstone, limestone, and coal beds (Selkregg and Kempton, 1958). The Pennsylvanian bedrock can only produce small quantities of groundwater.

Well data from the Illinois State Water Survey (ISWS, 1992) indicates all rural residents within the 4 mile target distance are supplied by groundwater drawn from the glacial drift. Figure 5-1 shows the location of the nearest occupied residence and private well. Table 5-1 presents the population using private wells within 4 miles of the site. Approximate population values presented in Table 5-1 were determined by multiplying the Macon County average of 2.35 persons per household (U.S. Department of Commerce, 1991) by the number of houses counted in each distance ring on a topographic map (U.S. Geological Survey, 1982).

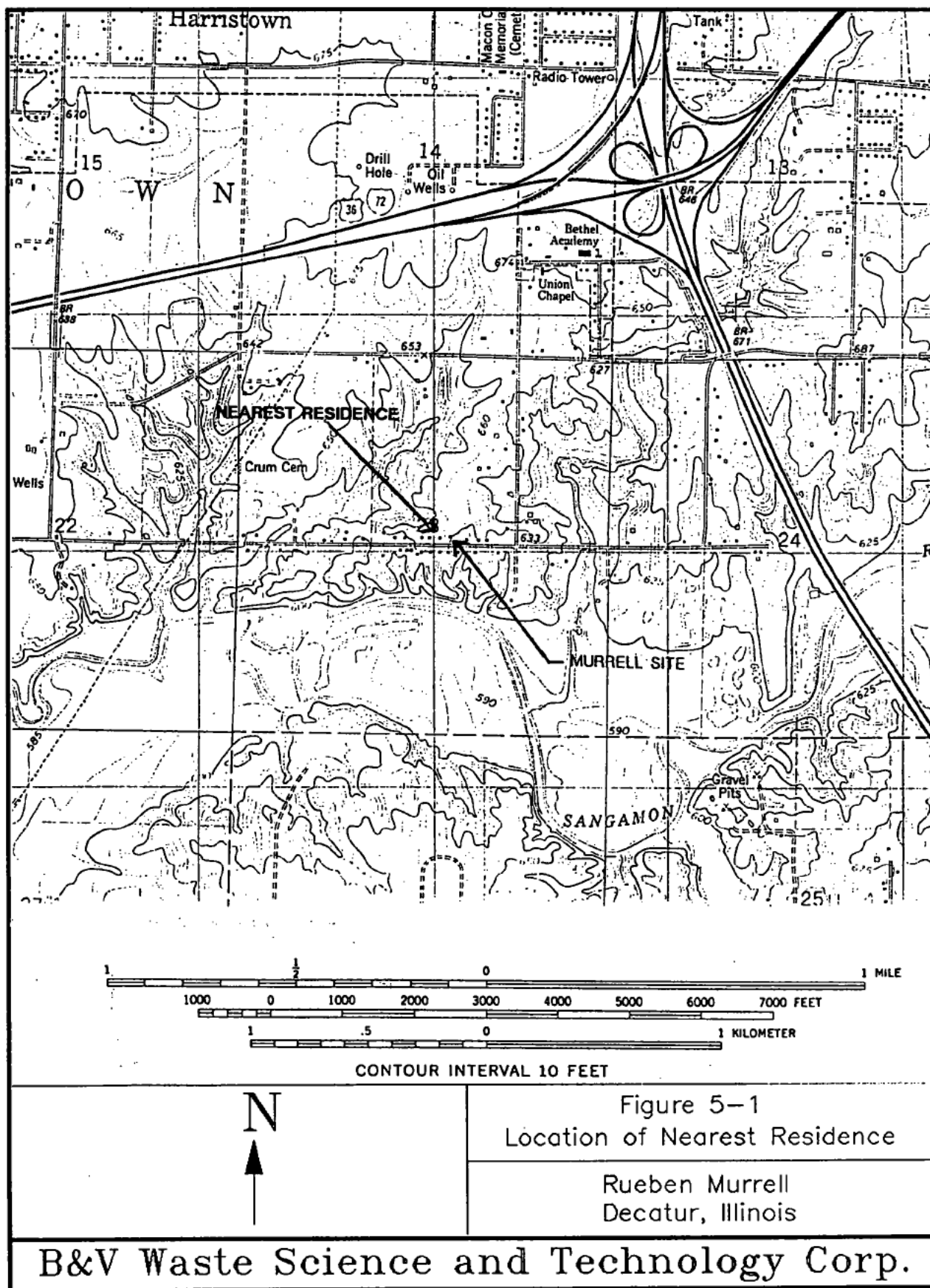


Table 5-1 Private Well Users	
Radial Distance From Rueben Murrell In Miles	Approximate Population Served By Private Wells
0.00 - 0.25	65
0.25 - 0.50	42
0.50 - 1.00	117
1.00 - 2.00	314
2.00 - 3.00	169
3.00 - 4.00	286
Total Population	993

Source: U.S. Geological Survey, 1982

5.3 Surface Water

The Rueben Murrell site is fairly flat. Runoff from precipitation generally drains south of the site to Hill Road and toward the Sangamon River. The Sangamon River flows to the southwest at approximately six hundred eighty cubic feet per second (IEPA, 1990). The probable point of entry to the Sangamon River is about nine hundred feet south of the site. No surface water intakes are within 15 miles downstream of the site. The city of Decatur uses surface water from the Sangamon River for its public water supply; however, the closest city water intake is approximately four miles upstream from the site. Table 5-2 presents information on this intake. No critical habitats for endangered species are known on the Sangamon River, within 15 miles downstream from the site (Illinois Department of Conservation, 1992). The Sangamon River appears to be used only for recreational purposes.

<p align="center">Table 5-2 Public Water Supply Sources Within 4 Miles of Rueben Murrell</p>				
Distance/Direction From Site	Source Name	Location of Source	Population Served	Source Type
4 miles northeast	Decatur municipal water	Lake Decatur	31,063	Surface Water

Source: City of Decatur, 1992

No records of endangered or threatened species were found within a 4-mile radius of the Rueben Murrell site (Illinois Department of Conservation, 1992). The Lincoln Trail Homestead State Park is within 3 miles of the site (USGS, 1982).

5.4 Air

The Rueben Murrell site contains garbage piles, construction waste, miscellaneous automobile parts, and areas of oily waste. These areas are not contained and are therefore open to the air. During the screening site inspection, the odor of garbage was noted coming from the pasture. The presence of chemicals of concern at or near the ground surface creates the potential for windblown particulate matter, which could be an inhalation hazard to the Murrells and neighboring residences. There are approximately twenty-seven houses within a quarter of a mile of the Rueben Murrell site.

5.5 Soil

Four soil samples were collected on the Rueben Murrell site. Analysis of these samples showed chemicals associated with the site to be present at levels significantly above background. During the site reconnaissance, two dogs and three kittens were

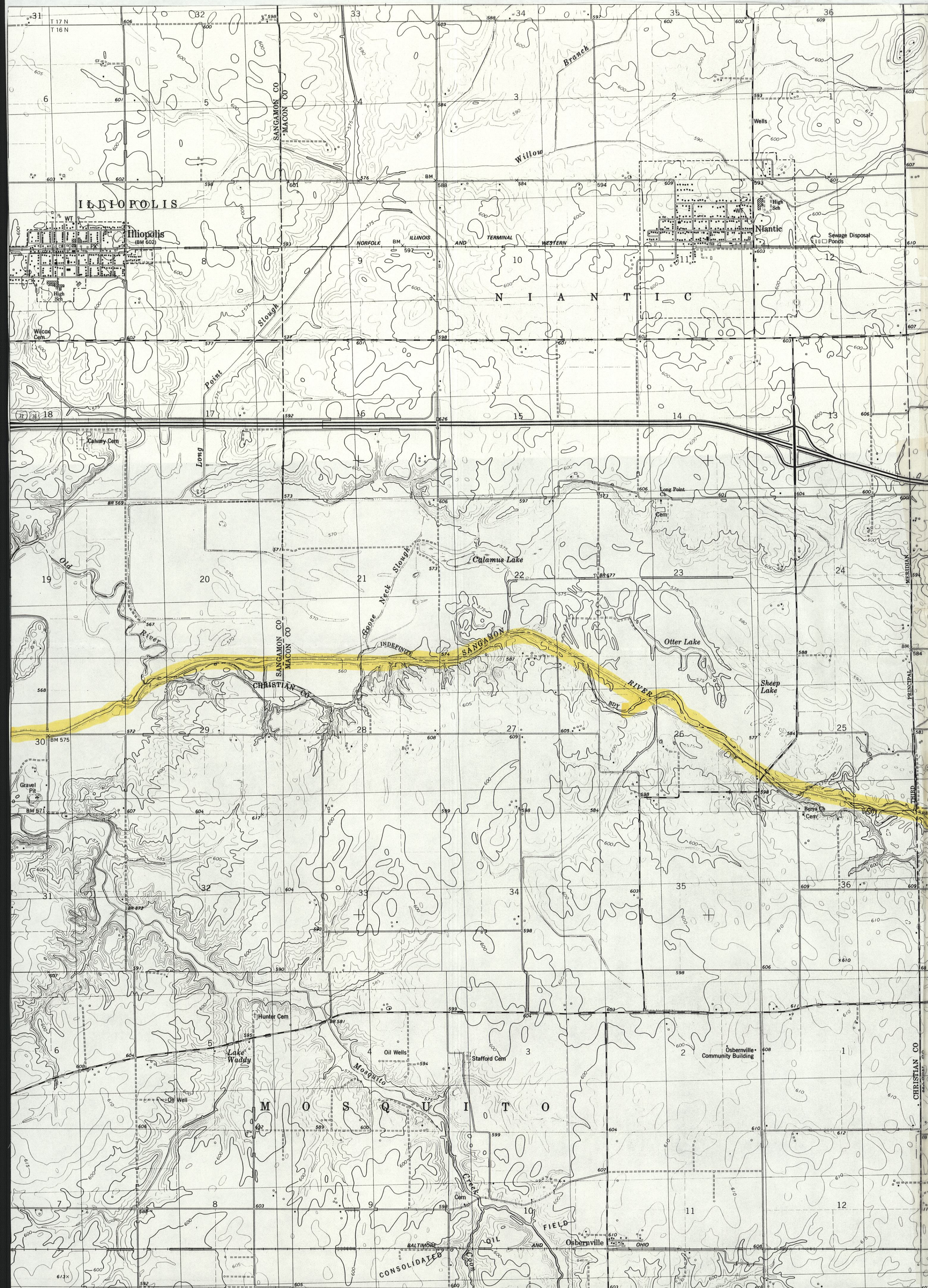
present on the site and were continuously stepping through the oil and garbage. Two horses graze in the pasture, around the two garbage piles where samples showed contaminated soil.

Mr. and Mrs. Murrell currently reside at the site; their son, Rueben Jr., comes to the site to work on his garbage trucks in the garage. The site is easily accessible from the southern side, where no fencing exists. A barbed wire fence surrounds the entire pasture, but it is in poor condition.

6.0 References

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- Decatur, City of, 1992. Telephone conversation between Josephine Ricks, city of Decatur Water Department, and J. Noyes, BVWST, April 1.
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- Illinois Environmental Protection Agency, 1990. "CERCLA Preliminary Assessment Report," Rueben Murrell, Macon County, ILD 984 769 240, March 16.
- Illinois Department of Conservation, 1992. Letter to J. Noyes of BVWST from G. Kruse, Project Manager, July 2.
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- U.S. Environmental Protection Agency (USEPA), 1988, "Pre-Remedial Strategy for Implementing SARA," Office of Solid Waste and Emergency Response, Washington, D.C., Directive Number 9345.2-101, February 12.
- U.S. Environmental Protection Agency (USEPA), 1992a. CERCLIS Site/Event Listing for Illinois, July 8.
- USEPA, 1992b. Region V List of RCRA Notifiers in Illinois, July 24.
- U.S. Department of Commerce, 1991. Economic and Statistics Administration, Bureau of the Census, "1990 Census of Population and Housing, Summary Population and Housing Characteristics, Illinois," Washington D.C., August.
- U.S. Geological Survey, 1982. Topographic map, Harristown, IL, 7.5 minute quadrangle.

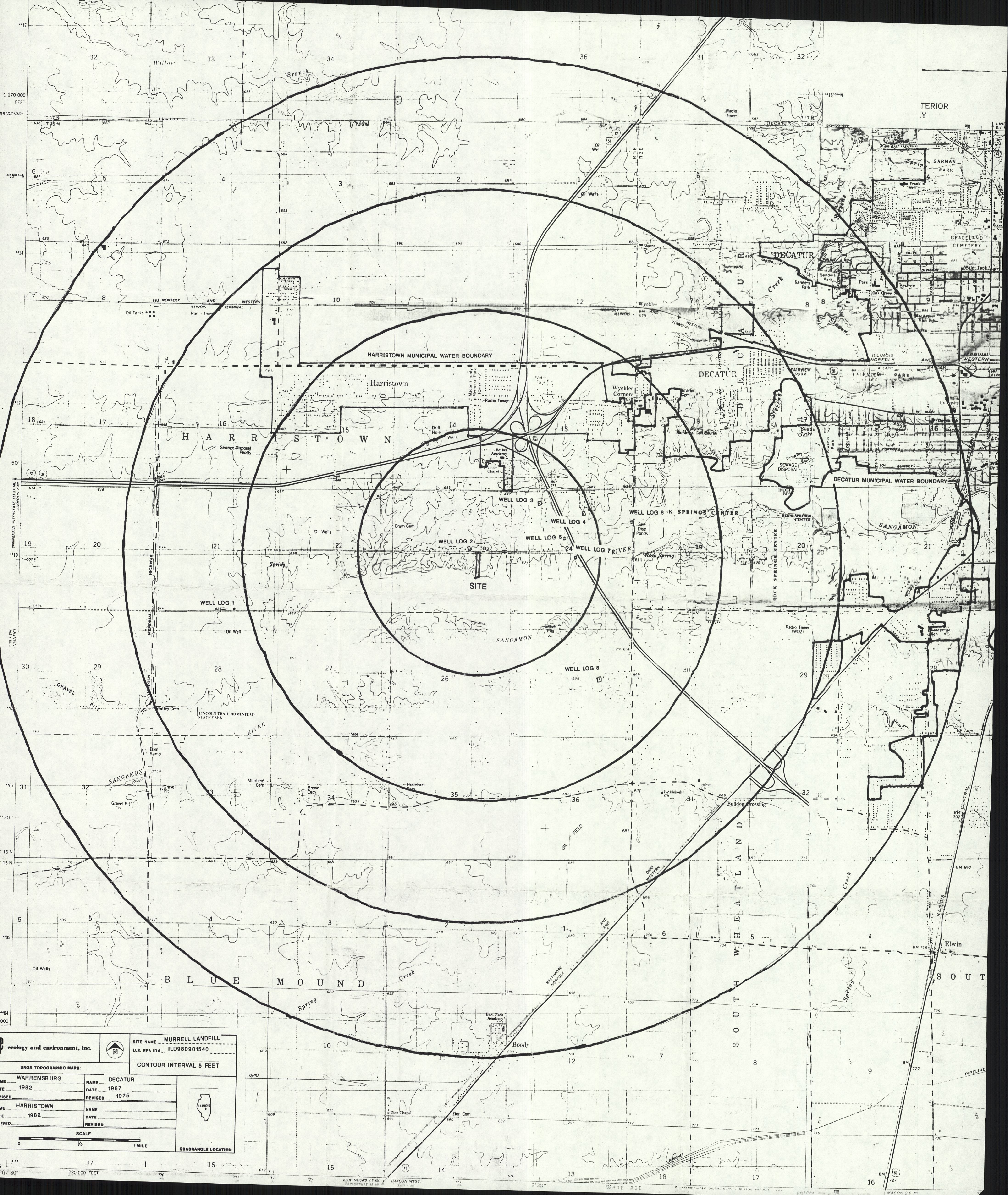
Appendix A
Site 4-Mile Radius Map
and
15-Mile Surface Water Route Map
Rueben Murrell



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

15 mile downstream target distance limit is highlighted in yellow

BVWST		N		Site Name: Rueben Murrell Site ID: ILD 984 769 240	
USGS TOPOGRAPHIC MAPS					
Name: Niantic Date: 1982		Name: Warrensburg Date: 1982		LEGEND	
Name: Harrisburg Date: 1982		Name: Decatur Date: 1975		Municipal Water Boundary	
				Site Location	
				Public Well	
				Private Well	
Map Scale					
Miles					



ecology and environment, inc.

USGS TOPOGRAPHIC MAPS:

NAME WARRENSBURG	NAME DECATUR
DATE 1982	DATE 1967
REVISED	REVISED 1975
NAME HARRISTOWN	NAME
DATE 1982	DATE
REVISED	REVISED

SCALE 0 1/2 1 MILE

QUADRANGLE LOCATION

SITE NAME MURRELL LANDFILL
U.S. EPA ID# ILD980901540
CONTOUR INTERVAL 5 FEET

Appendix B

USEPA Form 2070-13

Rueben Murrell



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
14D 954 769 240

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Rueben Murrell		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Box 153 - Hill Rd.	
03 CITY Decatur	04 STATE IL	05 ZIP CODE 62522	06 COUNTY Macon
08 COORDINATES LATITUDE 39.49 00.0 LONGITUDE 089.03 00.0		07 COUNTY CODE 115	08 CENSUS DIST. 20
10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 1, 8, 92 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1977 present BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR BVWST <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			

05 CHIEF INSPECTOR Mona Reints	06 TITLE Biologist	07 ORGANIZATION BVWST	08 TELEPHONE NO. (312) 346-3775
09 OTHER INSPECTORS Joe Gadomski	10 TITLE Chemist	11 ORGANIZATION BVWST	12 TELEPHONE NO. (312) 346-3775
John Quinn	Geologist	BVWST	(312) 346-3775
Pete Wolsko	Civil Engineer	BVWST	(312) 346-3775
			()
			()
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			()
			()
			()
			()
			()
			()
			()
17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION	19 WEATHER CONDITIONS Light rain. Wind ESE 10-15mph	

IV. INFORMATION AVAILABLE FROM

01 CONTACT Rueben Murrell	02 OF (Agency/Organization) Rueben Murrell	03 TELEPHONE NO. (217) 963-2469
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Tonya Hay	05 AGENCY EPA CONTRACTOR	06 ORGANIZATION BVWST
	07 TELEPHONE NO. (312) 346-3775	08 DATE 11, 4, 92 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984-769-240

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) <input checked="" type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ <small>(Specify)</small> <input type="checkbox"/> E. SLURRY <input type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS	02 WASTE QUANTITY AT SITE <small>Measures of waste quantities must be independent</small> TCNS _____ CUBIC YARDS <u>unknown</u> NO. OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE <u>x</u>	<u>unknown</u>		
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Butylbenzylphthalate		OD	1100	ug/kg
	Chrysene		OP	650	1
	Fluoranthene	206-44-0	OD	1400	1
	4-Methylphenol			1700	
	2-Methylnaphthalene			710	
	bis(2-ethylhexyl)phthalate			14800	
	Benzo(b)Fluoranthene			610	
	Napthalene	91-20-3		530	
	Phenanthrene	85-01-8		1400	1
	Pyrene			1200	ug/kg
IOC	Beryllium	7440-41-7		0.77	mg/kg
IOC	Cadmium	7440-43-9		2.0	mg/kg
IOC	Cyanide			0.69	mg/kg
MES	Lead			173	mg/kg
PSD	Aroclor 1242, 1248, 1254		1	varies	ug/kg
PSD	Gamma Chlordane		OD	11	ug/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, 100012)

SSI draft report for Ruben Murrell
IEPA Preliminary assessment



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

161984 769 240

I. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 720

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

The rural community on the west side of Decatur, in the vicinity of the Murrell property; relies on private wells as their primary source of drinking water.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

The Sangamon river is located 900 ft south of the site. The river is used for recreational purposes such as fishing and boating.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

unk

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

unk

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

The property is accessible from the southern side along Hill Road, where no fencing exists and the driveway extends and contaminates soil is found (near garage). A barbed wire fence surrounds the pasture yet it is bordered by woodlands & residences to the east and west.

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

The SSI Sampling results confirm contamination of soil at the two garage piles and the area south of the garage.

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 720

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

See "A" above.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

unk.

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 720

02 ☐ OBSERVED (DATE: _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

The rural population on the west side of Decatur is approximately 720.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
14D 984 769 240

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPOES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	unk		<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input checked="" type="checkbox"/> H. OPEN DUMP	unk		<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				06 AREA OF SITE 17 acres

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIXING, LINERS, BARRIERS, ETC.
The property is easily accessible from the south along Hall Road, where no fencing exists and the driveway extends. A barbed wire fence surrounds the pasture but it is in poor condition and does not restrict access from the north, west and east.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS
Oil spillage is all around the driveway and the south side of the garage. Garbage and piles are spread around the pasture.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

SSI Draft Report for Rueben Murrell



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
140 984 769 240

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input checked="" type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	NON-COMMUNITY C. <input checked="" type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. <u>5</u> (mi) B. <u>> 1/4</u> (mi)
SURFACE	WELL																
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>																
NON-COMMUNITY C. <input checked="" type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

- ☐ A. ONLY SOURCE FOR DRINKING
☒ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>992</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>> 1/4</u> (mi)			
04 DEPTH TO GROUNDWATER <u>30</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW _____	06 DEPTH TO AQUIFER OF CONCERN <u>30</u> (ft)	07 POTENTIAL YIELD OF AQUIFER _____ (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input type="checkbox"/> NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

10 RECHARGE AREA

- ☐ YES COMMENTS _____
☐ NO

11 DISCHARGE AREA

- ☐ YES COMMENTS _____
☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

- ☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>Sangamon River</u>	<input type="checkbox"/>	<u>3/8</u> (mi)
_____	<input type="checkbox"/>	_____ (mi)
_____	<input type="checkbox"/>	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>224</u> NO. OF PERSONS TWO (2) MILES OF SITE B. _____ NO. OF PERSONS THREE (3) MILES OF SITE C. _____ NO. OF PERSONS 02 DISTANCE TO NEAREST POPULATION <u>4</u> (mi) (City of Decatur)	03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____ 04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There are two people onsite. 26 people are within a 1/4 mile with 400 people living within 4 miles.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984-769-24

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-2} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

____ (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

sampled to 12 (ft)

05 SOIL pH

06 NET PRECIPITATION

____ (in)

07 ONE YEAR 24 HOUR RAINFALL

____ (in)

08 SLOPE

SITE SLOPE

____ %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

____ %

09 FLOOD POTENTIAL

SITE IS IN ____ YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. ____ (mi)

B. ____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. ____ (mi)

B. > 1/4 (mi)

C. ____ (mi) D. ____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The Rueben Murrell site is in a rural area outside of Decatur, Illinois. The property is bordered on the east and west by residential homes, on the south by Hill Road and more residences, and on the north by farmland. Access to the site is gained by a driveway off of Hill road.

Site topography is generally flat except for the southern part of the property which slopes downward toward Hill road. Surface water runoff is towards the Sangamon River, which is 900 ft south of the site

VII. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis reports)

SSI draft report for Rueben Murrell
PRE score for Rueben Murrell



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984-769-240

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	Wadsworth/Alcat Laboratories Inc (organics)	
VEGETATION		IT Analytical Services - Export (inorganics)	
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HClN meter	no readings (o)
RAO Meter	no readings (o)
HNO	less than 1 ppm

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>BVLWST</u> <small>*Name of organization or individual</small>
03 MAPS <input type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI sampling teams logbook (1/92)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984-769-240

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME Mr. & Mrs. Euben Murrell		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) Box 153 Hill Rd		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Decatur		06 STATE IL	07 ZIP CODE 62522	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME unknown		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, batch analysis reports)							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

LD 984-769-240

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (List specific references, e.g., State Dept., Laboratory Analysis, Reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984-769-240

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER
1LD 984769-240

PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 984-764-240

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., State laws, action analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984-769-240

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

III. SOURCES OF INFORMATION (Cite specific references, e.g., state laws, samplers analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 984-169-240

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

A letter was sent to Mr. Murrell on 3/26/82 by the Macon County Health Department. This letter stated that an inspection was made of his property on 3/23/82, with photos taken. It states that the refuse, bulky wastes, construction and demolition wastes openly dumped on the property are in violation of Article 4, sections 1 and 5 of the Macon County Refuse Ordinance.

It stated that the referenced material must either be removed, or covered with two ft. of compacted earth within 30 days or legal action would be instituted.

The outcome of this violation is not known. The Macon Co Health Department has no record of the action taken and the States Attorney Office records were destroyed on May 4, 1984.

There are no violations currently pending against the Ruben Murrell Site.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

The letter to Mr. Murrell was attached to the IEPA Preliminary Assessment Report.

Appendix C

Target Compound and Analyte Lists

Rueben Murrell

Target Compound List

Volatiles

Chloromethane	1,2-Dichloropropane
Bromomethane	Cis-1,3-Dichloropropane
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropane
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	Toluene
2-Butanone	1,1,2,2-Tetrachloroethane
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethyl benzene
Bromodichloromethane	Styrene
	Xylenes (total)

Source: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWST, September 27, 1991.

Target Compound List (continued)

Semivolatiles

Phenol	Acenaphthene
bis(2-Chloroethyl) ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
1,2-Dichlorobenzene	Diethylphthalate
2-Methylphenol	4-Chlorophenyl-phenyl ether
2,2-oxybis-(1-Chloropropane)*	Fluorene
4-Methylphenol	4-Nitroaniline
N-Nitroso-di-n-dipropylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	N-Nitrosodiphenylamine
Nitrobenzene	4-Bromophenyl-phenyl ether
Isophorone	Hexachlorobenzene
2-Nitrophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenanthrene
bis(2-Chloroethoxy) methane	Anthracene
2,4-Dichlorophenol	Carbazole
1,2,4-Trichlorobenzene	Di-n-butylphthalate
Naphthalene	Fluoranthene
4-Chloroaniline	Pyrene
Hexachlorobutadiene	Butyl benzyl phthalate
4-Chloro-3-methylphenol	3,3-Dichlorobenzidine
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	bis(2-Ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-Octylphthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
Dimethylphthalate	Benzo(a)pyrene
Acenaphthylene	Indeno(1,2,3-cd)pyrene
2,6-Dinitrotoluene	Dibenzo(a,h)anthracene
3-Nitroaniline	Benzo(g,h,i)perylene

*Previously known by the name of bis(2-chloroisopropyl) ether.

Source: Target Compound List for water and soil with low or medium levels of volatile and semivolatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWST, September 27, 1991.

Target Compound List (continued)

Pesticide/PCB

alpha-BHC	4,4-DDT
beta-BHC	Methoxychlor
delta-BHC	Endrin ketone
gamma-BHC (Lindane)	Endrin aldehyde
Heptachlor	alpha-chlordane
Aldrin	gamma-chlordane
Heptachlor epoxide	Toxaphene
Endosulfan I	Aroclor-1016
Dieldrin	Aroclor-1221
4,4-DDE	Aroclor-1232
Endrin	Aroclor-1242
Endosulfan II	Aroclor-1248
4,4-DDD	Aroclor-1254
Endosulfan sulfate	Aroclor-1260

Source: Target Compound List for water and soil containing less than high concentrations of pesticides/aroclor, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWST, September 27, 1991.

Target Analyte List

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Cyanide

Source: Target Analyte List in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, BVWST, September 27, 1991.

Appendix D
Analytical Results
Rueben Murrell

Data Qualifiers		
Analysis	Qualifier	Description
Organic	R	Indicates that the data are unusable. The compound may or may not be present.
	U	Indicates compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.
	J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
	P	This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported and flagged with a "P".
	B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag must be used for a TIC as well as for a positively identified TCL compound.
Inorganic	U	Indicates compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.
	J	Indicates an estimated value.
	B	Indicates that the reported value is less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
	E	The reported value is estimated because of the presence of interference.
	N	Spiked sample recovery not within control limits.
	S	The reported value was determined by the Method of Standard Additions (MSA).
	W	Post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
	*	Duplicate analysis was not within control limits.

Volatile Organic Analysis for Soil
Rueben Murrell

Volatile Compound	Sample Location and Number Concentrations in ug/kg			
	SS01	SS02	SS03	SS04
Chloromethane	14UJ	11UJ	15UJ	16UJ
Bromomethane	14U	11U	15U	16U
Vinyl Chloride	14U	11U	15UJ	16UJ
Chloroethane	14U	11U	15U	16U
Methylene Chloride	14U	11U	15U	16U
Acetone	14UJ	20UJ	15U	16U
Carbon Disulfide	14UJ	3J	15U	16UJ
1,1-Dichloroethene	14U	11U	15UJ	16U
1,1-Dichloroethane	14UJ	11UJ	15UJ	16UJ
1,2-Dichloroethene (total)	14U	11U	15U	16U
Chloroform	14U	11U	15U	16U
1,2-Dichloroethane	14U	11U	15U	16U
2-Butanone	14UJ	11UJ	15U	16U
1,1,1-Trichloroethane	14U	11U	15U	16U
Carbon Tetrachloride	14U	11U	15U	16U
Bromodichloromethane	14U	11U	15U	16U
1,2-Dichloropropane	14U	11U	15U	16U
cis-1,3-Dichloropropene	14U	11U	15U	16U
Trichloroethene	14U	11U	15U	16U
Dibromochloromethane	14U	11U	15U	16U
1,1,2-Trichloroethane	14U	11U	15U	16U
Benzene	14U	11U	15U	16U
trans-1,3-Dichloropropene	14U	11U	15U	16U
Bromoform	14U	11U	15U	16U
4-Methyl-2-Pentanone	14UJ	3J	15UJ	16UJ
2-Hexanone	14UJ	11UJ	15UJ	16UJ
Tetrachloroethene	14U	11UJ	15U	16U
1,1,2,2-Tetrachloroethane	14UJ	11UJ	15U	16U
Toluene	14U	3J	12J	5J
Chlorobenzene	14U	11UJ	15U	16U
Ethylbenzene	14U	11UJ	4J	16U
Styrene	14U	11UJ	5J	16U
Xylene (total)	14U	11UJ	15U	16U
Total Number of TICs *	0	3	1	0

NOTE: Number, not concentrations, of tentatively identified compounds (TICs)

Semivolatile Organic Analysis for Soil
Rueben Murrell

Semivolatile Compound	Sample Location and Number Concentrations in ug/kg			
	SS01	SS02	SS03	SS04
Phenol	460 UR	11000 UR	500 UR	530 UR
bis(2-Chloroethyl)Ether	460 U	11000 UR	500 U	530 U
2-Chlorophenol	460 UR	11000 UR	500 UR	530 UR
1,3-Dichlorobenzene	460 U	11000 UR	500 U	530 U
1,4-Dichlorobenzene	460 UR	11000 UR	500 UR	530 UR
1,2-Dichlorobenzene	460 U	11000 UR	500 U	530 U
2-Methylphenol	460 U	11000 UR	500 U	530 U
2,2'-Oxybis(1-Chloropropane)	460 U	11000 UR	500 UJ	530 UJ
4-Methylphenol	460 U	1700 J	500 U	530 U
n-Nitroso-di-n-propylamine	460 UR	11000 UR	500 UR	530 UR
Hexachloroethane	460 U	11000 UR	500 U	530 U
Nitrobenzene	460 U	11000 UR	500 U	530 U
Isophorone	460 U	11000 UR	500 U	530 U
2-Nitrophenol	460 U	11000 UR	500 U	530 U
2,4-Dimethylphenol	460 U	11000 UR	500 U	530 U
bis(2-Chloroethoxy)Methane	460 U	11000 UR	500 U	530 U
2,4-Dichlorophenol	460 U	11000 UR	500 U	530 U
1,2,4-Trichlorobenzene	460 UR	11000 UR	500 UR	530 UR
Naphthalene	460 U	11000 UR	530	530 U
4-Chloroaniline	460 U	11000 UR	500 U	530 U
Hexachlorobutadiene	460 U	11000 UR	500 U	530 U
4-Chloro-3-Methylphenol	460 UR	11000 UR	500 UR	530 UR
2-Methylnaphthalene	460 U	710 J	130 J	530 U
Hexachlorocyclopentadiene	460UJ	11000 UJR	500 UJ	530 UJ
2,4,6-Trichlorophenol	460 U	11000 UR	500 U	530 U
2,4,5-Trichlorophenol	460 U	27000 UR	1200 U	1300 U
2-Chloronaphthalene	460 U	11000 UR	500 U	530 U
2-Nitroaniline	460 U	27000 UR	1200 U	1300 U
Dimethyl Phthalate	460 U	11000 UR	500 U	530 U
Acenaphthylene	460 U	11000 UR	500 U	530 U
2,6-Dinitrotoluene	460 U	11000 UR	500 U	530 U
3-Nitroaniline	460 U	27000 UR	1200 U	1300 U
Acenaphthene	460 UR	11000 UR	500 UR	530 UR

Semivolatile Organic Analysis for Soil
Rueben Murrell

Semivolatile Compound	Sample Location and Number Concentrations in ug/kg			
	SS01	SS02	SS03	SS04
2,4-Dinitrophenol	1100UJ	27000 UJR	1200 UJ	1300 UJ
4-Nitrophenol	1100UJR	27000 UJR	1200 UJR	1300 UJR
Dibenzofuran	460 U	11000 UR	72 J	530 U
2,4-Dinitrotoluene	460 UR	11000 UR	500 UR	530 UR
Diethylphthalate	460 U	11000 UR	500 U	530 U
4-Chlorophenyl Phenyl Ether	460 U	11000 UR	500 U	530 U
Fluorene	460 U	11000 UR	32 J	530 U
4-Nitroaniline	1100U	27000 UJR	1200 UJ	1300 UJ
4,6-Dinitro-2-Methylphenol	1100UJ	27000 UJR	1200 UJ	1300 UJ
n-Nitrosodiphenylamine	460 U	11000 UR	500 U	530 U
4-Bromophenyl Phenyl Ether	460 U	11000 UR	500 U	530 U
Hexachlorobenzene	460 UJ	11000 UJR	500 UJ	530 UJ
Pentachlorophenol	1100UJR	27000 UJR	1200 UJR	1300 UJR
Phenanthrene	460 U	1400 J	300 J	530 U
Anthracene	460 U	11000 UR	41 J	530 U
Carbazole	460 U	11000 UR	500 U	530 U
di-n-Butylphthalate	460 U	11000 UR	500 U	520 JB
Fluoranthene	460 U	1400 J	170 J	37 J
Pyrene	460 UR	1200 J	93 JR	30 JR
Butyl Benzyl Phthalate	460 U	1100 J	90 J	530 U
3,3'-Dichlorobenzidine	460 UJ	11000 UR	500 UJ	530 UJ
Benzo(a)Anthracene	460 U	11000 UR	43 J	530 U
Chrysene	460 U	650 J	100 J	40 J
bis(2-Ethylhexyl)Phthalate	460 UJ	4800 J	1100 J	26 J
di-n-Octyl Phthalate	460 UJ	11000 UJR	500 UJ	530 UJ
Benzo(b)Fluoranthene	460 U	610 J	75 J	43 J
Benzo(k)Fluoranthene	460 U	11000 UR	42 J	530 U
Benzo(a)Pyrene	460 U	11000 UR	34 J	28 J
Indeno(1,2,3-cd)Pyrene	460 U	11000 UR	500 U	530 U
Dibenzo(a,h)Anthracene	460 U	11000 UR	500 U	530 U
Benzo(g,h,i)Perylene	460 U	11000 UR	500 U	530 U
Total Number of TICs*	21	21	21	21

Pesticide and PCB Analysis for Soil
Rueben Murrell

Pesticide / PCB	Sample Location and Number Concentrations in ug/kg			
	SS01	SS02	SS03	SS04
Alpha-BHC	2.4 UJ	17 UJ	2.6 UJ	2.7 U
Beta-BHC	2.4 UJ	17 UJ	2.6 UJ	2.7 U
Delta-BHC	2.4 UJ	17 UJ	2.6 UJ	2.7 U
Gamma-BHC (Lindane)	2.4 UJ	3.1 JP	2.6 UJ	2.7 U
Heptachlor	2.4 R	17 UR	2.6 UR	2.7 UR
Aldrin	2.4 R	17 UR	2.6 UR	2.7 UR
Heptachlor Epoxide	2.4 UJ	17 UJ	2.6 UJ	2.7 U
Endosulfan I	2.4 UJ	17 UJ	2.6 UJ	2.7 U
Dieldrin	4.6 UJ	33 UJ	7.5 JP	5.3 U
4,4'-DDE	4.6 UJ	33 UJ	5.0 UJ	5.3 U
Endrin	4.6 UJ	10 JP	5.0 UJ	5.3 U
Endosulfan II	4.6 UJ	33 UJ	5.0 UJ	5.3 U
4,4'-DDD	4.6 UJ	33 UJ	5.0 UJ	5.3 U
Endosulfan Sulfate	4.6 UJ	33 UJ	5.0 UJ	5.3 U
4,4'-DDT	5.2 JP	24 JP	5.0 UJ	5.3 UJ
Methoxychlor	24 UJ	170 UJ	26 UJ	27 U
Endrin Ketone	4.6 UJ	33 UJ	5.0 UJ	5.3 U
Endrin Aldehyde	4.6 UJ	33 UJ	5.0 UJ	5.3 U
Alpha-Chlordane	2.4 UJ	17 UJ	5.9 JP	2.7 P
Gamma-Chlordane	2.4 UJ	17 UJ	11 JP	2.7 U
Toxaphene	240 UJ	1700 UJ	260 UJ	270 U
Aroclor-1016	46 UJ	330 UJ	50 UJ	53 U
Aroclor-1221	94 UJ	680 UJ	100 UJ	110 U
Aroclor-1232	46 UJ	330 UJ	50 UJ	53 U
Aroclor-1242	46 UJ	330 UJ	510 JP	53 U
Aroclor-1248	46 UJ	810 J	50 UJ	53 U
Aroclor-1254	46 UJ	350 J	50 UJ	150 P
Aroclor-1260	46 UJ	330 UJ	50 UJ	53 U

Inorganic Analysis for Soil
Rueben Murrell

Metals and Cyanide	Sample Locations and Number Concentrations in mg/kg			
	SS01	SS02	SS03	SS04
Aluminum	9230	3650	6300	9360
Antimony	2.3 UJN	1.8 UJN	2.3 UJN	2.6 UJN
Arsenic	4.1	5.6 S	3.0 S	4.5
Barium	99.8	59.7	160	208
Beryllium	0.28 U	0.77 B	0.29 U	0.33 U
Cadmium	0.42 B	2.0	0.96 B	1.6 B
Calcium	2620	117000	6820	5140
Chromium	14.6	9.5	8.5	14.4
Cobalt	10.2 B	4.2 B	8.3 B	10.1 B
Copper	15.9 J*	363 J*	31.4 J*	43.2 J*
Iron	15400 *	17200 *	10600 *	17300 *
Lead	32	126	51	173
Magnesium	2300 *	4200 *	2040 *	2320 *
Manganese	1170	551	1460	1220
Mercury	0.12 U	0.11 U	0.12 U	0.14 U
Nickel	16.9	18.0	12.8	17.2
Potassium	1850 JE	760 BJE	1770 JE	2580 JE
Selenium	0.41 B	0.63 BJW	0.47 B	0.4 B
Silver	0.57 UJN	0.45 UJN	0.59 UJN	0.66 UJN
Sodium	55.5 BJE	252 BJE	160 BJE	69.5 BJE
Thallium	0.54 U	0.45 U	0.59 U	0.66 U
Vanadium	22.7JE	14.3 JE	17.0 JE	23.9 JE
Zinc	65.7J*	239 J*	171 J*	1280 J*
Cyanide	0.28 U	0.23 U	0.66 B	0.49 B

Volatile Organic Analysis for Soil
Tentatively Identified Compounds
Rueben Murrell SSI

Sample SS02		
Compound Name	Retention Time	Estimated Concentration (ug/kg)
Unknown	21.8	11 J
Unknown Alkane	21.6	21 J
Unknown	23.5	26 J
Sample SS03		
Compound Name	Retention Time	Estimated Concentration (ug/kg)
Methyl-cyclohexane	13.73	9 JN

Semivolatile Organic Analysis for Soil
Tentatively Identified Compounds
Rueben Murrell SSI

Sample SS01		
Compound Name	Retention Time	Estimated Concentration (ug/kg)
Aldol Condensation Product	3.4	19000 U
Unknown	5.5	340 J
Ethanol,2-(2-Ethoxyethoxy)-	5.7	220 U
Unknown	6.4	760 J
Unknown Acid	11.6	140 J
Unknown Acid	16.8	200 J
Unknown	21.1	200 J
Unknown	22.5	580 J
Unknown	23.4	240 J
Unknown	23.8	1300 J
Unknown Hydrocarbon	25.0	320 J
Unknown	25.2	320 J
Unknown	25.8	280 J
Unknown	26.0	140 J
Unknown	26.1	130 J
Unknown	26.4	800 J
Unknown	26.5	220 J
Unknown	26.7	400 J
Unknown	26.8	460 J
Unknown	27.0	220 J
Unknown	27.3	360 J

Semivolatile Organic Analysis for Soil
Tentatively Identified Compounds
Rueben Murrell SSI

Sample SS02		
Compound Name	Retention Time	Estimated Concentration
Aldol Condensation Product	3.1	15000 UR
Unknown Hydrocarbon	13.6	8000 J
Unknown Hydrocarbon	14.2	26000 J
Unknown Hydrocarbon	15.2	11000 J
Unknown	19.6	9000 J
Unknown	21.0	11000 J
Unknown Hydrocarbon	21.3	11000 J
Unknown	21.7	9400 J
Unknown Hydrocarbon	22.1	12000 J
Unknown Hydrocarbon	22.6	16000 J
Unknown	22.8	13000 J
Unknown	23.3	10000 J
Unknown	23.5	14000 J
Unknown	24.1	12000 J
Unknown	24.7	15000 J
Unknown	24.8	11000 J
Unknown PolyaeromaticHydrocarbon	25.2	16000 J
Unknown PolyaeromaticHydrocarbon	25.3	15000 J
Unknown PolyaeromaticHydrocarbon	25.9	8800 J
Unknown Hydrocarbon	26.2	8000 J
Unknown Hydrocarbon	26.5	13000 J

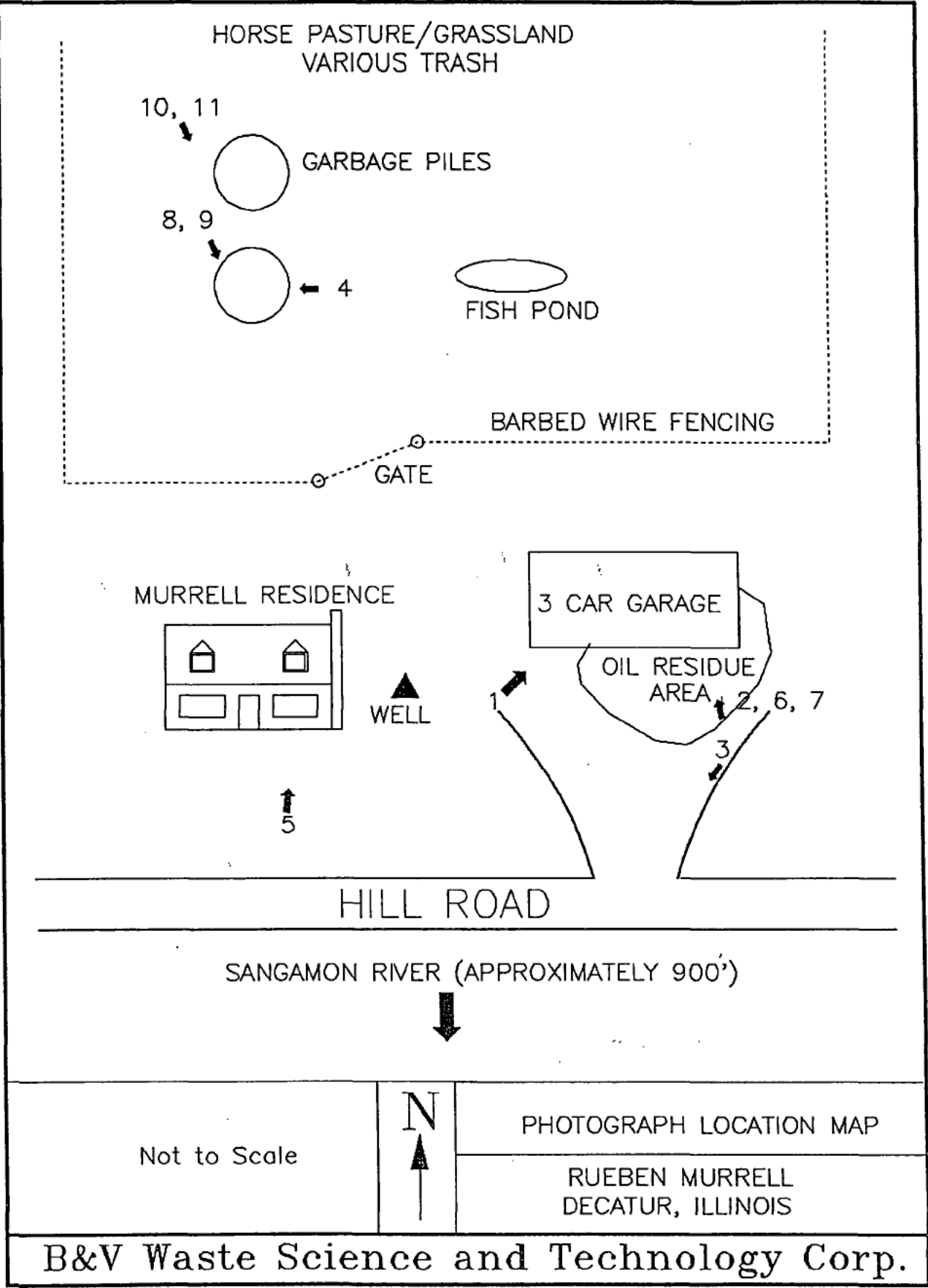
Semivolatile Organic Analysis for Soil
Tentatively Identified Compounds
Rueben Murrell SSI

Sample SS03		
Compound Name	Retention Time	Estimated Concentration(ug/kg)
Aldol Condensation Product	3.4	34000 U
Unknown	13.7	560 J
Unknown	14.1	660 J
Unknown	16.1	560 J
Unknown Acid	16.6	520 J
Unknown Acid	16.7	740 J
Unknown	20.6	2200 J
Unknown	20.9	660 J
Unknown	21.0	580 J
Unknown	21.4	1800 J
Unknown	21.7	900 J
Unknown Hydrocarbon	22.4	1200 J
Unknown	24.0	1000 J
Unknown Hydrocarbon	24.3	720 J
Unknown Hydrocarbon	24.9	1800 J
Unknown	25.8	760 J
Unknown	26.0	740 J
Unknown	26.1	1100 J
Unknown	26.2	2200 J
Unknown	26.7	2200 J
Unknown	26.9	840 J

Semivolatile Organic Analysis for Soil
Tentatively Identified Compounds
Rueben Murrell SSI

Sample SS04		
Compound Name	Retention Time	Estimated Concentration(ug/kg)
Aldol Condensation Product	3.3	20000 U
Unknown Hydrocarbon	22.3	240 J
Unknown Hydrocarbon	23.6	1700 J
Unknown	24.8	420 J
Unknown Hydrocarbon	24.8	1400 J
Unknown Hydrocarbon	24.8	340 J
Unknown	25.0	260 J
Unknown	25.7	440 J
Unknown	25.8	640 J
Unknown Hydrocarbon	26.0	580 J
Unknown Hydrocarbon	26.0	380 J
Unknown	26.2	920 J
Unknown	26.3	220 J
Unknown	26.5	560 J
Unknown	26.6	420 J
Unknown	26.6	340 J
Unknown	26.8	780 J
Unknown	27.1	460 J
Unknown	27.4	660 J
Unknown	27.6	380 J
Unknown	27.9	300 J

Appendix E
Photographs
Rueben Murrell



Date: 9-18-91

Time: N/A

Photo Taken By: J. Quinn

Photo Number: 1

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: Northeast

Description: Southwestern end of garage, northwest end of driveway. Note oil stained driveway.



Date: 9-18-91

Time: N/A

Photo Taken By: J. Quinn

Photo Number: 2

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: North

Description: Note oil, mud debris at southeastern edge of garage.



Date: 9-18-91

Time: N/A

Photo Taken By: J. Quinn

Photo Number: 3

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: Southwest

Description: Note mud and oil areas along southwestern portion of driveway. Dog for scale.



Date: 9-18-91

Time: N/A

Photo Taken By: J. Quinn

Photo Number: 4

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: West

Description: Area of scattered garbage pile. This is the south trash pile.



Date: 1-8-92

Time: 8:50

Photo Taken By: R. Reints

Photo Number: 5

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: Northwest

Description: View of sample location SS01 taken south of Murrells residence.



Date: 1-8-92

Time: 8:50

Photo Taken By: R. Reints

Photo Number: 6

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: Northwest

Description: View of sample location SS02 taken south of garage.



Date: 1-8-92

Time: 8:55

Photo Taken By: R. Reints

Photo Number: 7

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: Northwest

Description: Expanded view of sample location SS02.



Date: 1-8-92

Time: 9:00

Photo Taken By: R. Reints

Photo Number: 8

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: South

Description: Sample location SS03 taken from southern trash pile.



Date: 1-8-92

Time: 9:00

Photo Taken By: R. Reints

Photo Number: 9

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: South

Description: Expanded view of
sample location SS03.



Date: 1-8-92

Time: 9:10

Photo Taken By: R. Reints

Photo Number: 10

Location/ILD #:
Rueben Murrell
ILD 984 769 240

Direction of Photo: South

Description: View of sample
location SS04 taken from near
south trash pile.



Date: 1-8-92

Time: 9:10

Photo Taken By: R. Reints

Photo Number: 11

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: South

Description: Expanded view of sample location SS04.



Date: 1-8-92

Time: 14:35

Photo Taken By: J. Gadomski

Photo Number: 12

Location/ILD #:

Rueben Murrell

ILD 984 769 240

Direction of Photo: N/A

Description: Photo of cooler prior to packaging and shipment.



Appendix F
Representative Well Logs
Rueben Murrell

White Copy - Public Health
 Yellow Copy - Well Contractor
 Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

- Type of Well
 - Dug ☐ Bored ☒ Hole Diam. 43 in. Depth 40 ft.
 Curb material ☐ Buried Slab: Yes ☒ No ☐
 - Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
 - Drilled ☐ Finished in Drift ☒ In Rock ☐
 Tubular ☐ Gravel Packed ☒
 - Grout:

(KIND)	FROM (FT.)	TO (FT.)

- Distance to Nearest:

Building <u>100</u> Ft.	Seepage Tile Field <input type="checkbox"/>
Cess Pool <input type="checkbox"/>	Sewer (non Cast iron) <input type="checkbox"/>
Privy <input type="checkbox"/>	Sewer (Cast iron) <input type="checkbox"/>
Septic Tank <input type="checkbox"/>	Barnyard <input type="checkbox"/>
Leaching Pit <input type="checkbox"/>	Manure Pile <input type="checkbox"/>

- Well furnishes water for human consumption? Yes ☒ No ☐
- Date well completed 9-79
- Permanent Pump Installed? Yes ☒ Date 9-79 No ☐
 Manufacturer F&W Type sub Location well
 Capacity 10 gpm. Depth of Setting 35 Ft.
- Well Top Sealed? Yes ☒ No ☐ Type ☐
- Pitless Adapter Installed? Yes ☒ No ☐
 Manufacturer Beher Model Number 6"
 How attached to casing? Bolt
- Well Disinfected? Yes ☒ No ☐
- Pump and Equipment Disinfected? Yes ☒ No ☐
- Pressure Tank Size 22.4 gal. Type gstr.
 Location basement
- Water Sample Submitted? Yes ☐ No ☐

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

- Property owner Non - Responsive Well No.
 Address Non - Responsive Non - Responsive
 Driller Joe Cook License No. 102-15
- Permit No. 88495 Date 9-79
- Water from Clay 13. County Macoupin
 at depth 17 to 18 ft. Sec. 24 b
 14. Screen: Diam. ☐ in. Twp. 16N
 Length: ☐ ft. Slot ☐ Rge. 1E
 Elev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>PVC</u>	<u>0</u>	<u>14</u>
<u>36</u>	<u>Concrete</u>	<u>14</u>	<u>40</u>

SHOW LOCATION IN SECTION PLAT
 NE SE SE

- Size Hole below casing: ☐ in.
- Static level ☐ ft. below casing top which is ☐ ft. above ground level. Pumping level ☐ ft. when pumping at ☐ gpm for ☐ hours.

18. FORMATIONS	SED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>top soil</u>		<u>1</u>	<u>1</u>
<u>clay</u>		<u>7</u>	<u>8</u>
<u>Drift</u>		<u>9</u>	<u>17</u>
<u>Sandy Clay</u>		<u>1</u>	<u>18</u>
<u>Drift</u>		<u>22</u>	<u>40</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Theresa C. Cook DATE 9/79

FILE COPY

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dep. of Pub. Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, HEALTH PROTECTION, ENVIRONMENTAL HEALTH, 525
WEST JEFFERSON, SPRINGFIELD, ILLINOIS 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug ☒ Bored ☒ Hole Diam. 16 in. Depth 73 ft.
Curb material tile Burled Slab: Yes ☒ No ☐
b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☒
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building 100 Ft. Seepage Tile Field ☐
Cess Pool ☐ Sewer (non Cast iron) ☐
Privy ☐ Sewer (Cast iron) ☐
Septic Tank 92 Barnyard ☐
Leaching Pit ☐ Manure Pile ☐

3. Well furnishes water for human consumption? Yes ☐ No ☐4. Date well completed 6-8-885. Permanent Pump Installed? Yes ☐ Date ☐ No ☐Manufacturer ☐ Type ☐ Location ☐Capacity ☐ gpm. Depth of Setting ☐ Ft.6. Well Top Sealed? Yes ☒ No ☐ Type Buried Seal7. Pitless Adapter Installed? Yes ☐ No ☐Manufacturer ☐ Model Number ☐How attached to casing? ☐8. Well Disinfected? Yes ☐ No ☒9. Pump and Equipment Disinfected? Yes ☐ No ☐10. Pressure Tank Size ☐ gal. Type ☐Location ☐11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

Co # 22041

10. Property owner Non-Responsive Well No. Address Non-ResponsiveDriller W. J. Smith License No. 00420031811. Permit No. 003186 Date 6-8-8812. Water from 13. County Macoupinat depth 28 to 40 ft. Sec. 244414. Screen: Diam. ☐ in. Twp. 16-NLength: ☐ ft. Slot ☐ Rge. 1EElev. ☐

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>sch 20</u>	<u>0</u>	<u>10</u>
<u>36</u>	<u> </u>	<u>10</u>	<u>73</u>

SHOW
LOCATION IN
SECTION PLAT

NW NW NE

16. Size Hole below casing: ☐ in.17. Static level ☐ ft. below casing top which is ☐ ft.
above ground level. Pumping level ☐ ft. when pumping at ☐
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Loess Soil</u>	<u>4</u>	
<u>Millage clay</u>	<u>28</u>	
<u>Sand and gravel</u>	<u>15</u>	
<u>Grey Soil</u>	<u>26</u>	

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED World to World DATE Aug 9-88

INSTRUCTIONS TO USERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 44 in. Depth 36 ft.
Curb material concrete Buried Slob: Yes ☒ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building ☐ Ft. Seepage Tile Field ☐

Cess Pool ☐ Sewer (non Cast iron) ☐

Privy ☐ Sewer (Cast iron) ☐

Septic Tank ☐ Barnyard ☐

Leaching Pit ☐ Manure Pile ☐

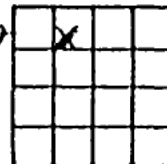
3. Well furnishes water for human consumption? Yes ☒ No ☐4. Date well completed 6-28-855. Permanent Pump Installed? Yes ☐ Date ☐ No ☒Manufacturer ☐ Type ☐ Location ☐Capacity ☐ gpm. Depth of Setting ☐ Ft.6. Well Top Sealed? Yes ☒ No ☐ Type ☐7. Pitless Adapter Installed? Yes ☐ No ☒Manufacturer ☐ Model Number ☐How attached to casing? ☐8. Well Disinfected? Yes ☐ No ☒9. Pump and Equipment Disinfected? Yes ☐ No ☒10. Pressure Tank Size ☐ gal. Type ☐Location ☐11. Water Sample Submitted? Yes ☐ No ☒

REMARKS:

new count - County 21866
no billy yet.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner: **Non - Responsive** Well No. ☐
Address: **Non - Responsive**
Driller: Tim License No. 72-607
11. Permit No. 118784 Date 6-28-85
12. Water from formation 13. County Macou
at depth 20 to 32 ft. Sec. 24.6
14. Screen: Diam. ☐ in. Twp. 16N
Length: ☐ ft. Slot ☐ Rge. 1E
Elev. ☐



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>plastic</u>		<u>10</u>
<u>36</u>	<u>concrete</u>		<u>36</u>

SHOW
LOCATION IN
SECTION PLAT
SW NE NW

16. Size Hole below casing: ☐ in.

17. Static level ☐ ft. below casing top which is ☐ ft.
above ground level. Pumping level ☐ ft. when pumping at ☐
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>clay</u>		<u>12</u>
<u>finely yellow clay</u>		<u>20</u>
<u>gravel & gray clay mix</u>		<u>32</u>
<u>gray clay</u>		<u>36</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED David L. L. DATE 6-28-85

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRI .RS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☒ Bored ☒ Hole Diam. 4 1/4 in. Depth 73 ft.
Curb material Buried Slab: Yes ☒ No ☐
b. Driven ☐ Drive Pipe Diam. in. Depth ft.
c. Drilled ☐ Finished in Drift ☐ In Rock ☐
Tubular ☐ Gravel Packed ☒
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building Ft. Seepage Tile Field
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed June 27, 1979

5. Permanent Pump Installed? Yes ☒ Date 7/79 - BY CUSTOMER
Manufacturer Valley Type 1/2 HP Location well
Capacity 12 gpm. Depth of Setting 52 Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type

7. Pitless Adapter Installed? Yes ☒ No ☐
Manufacturer Baker Model Number
How attached to casing? Clamp

8. Well Disinfected? Yes ☐ No ☐

9. Pump and Equipment Disinfected? Yes ☐ No ☐

10. Pressure Tank Size 42 gal. Type Well-x-Trol
Location house

11. Water Sample Submitted? Yes ☐ No ☐

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Non-Responsive Well
Driller Joseph R. Reynolds License No. 92-601
11. Permit No. 87194 Date June 27, 1979
12. Water from Glacial Drift Formation 13. County Nacon
at depth 44 to 73 ft. Sec. 25
14. Screen: Diam. in. Twp. 16N
Length: ft. Slot Rge. 1E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
10	Plastic	+1	-17
36	Concrete	-17	-60
24	Concrete	-60	-73

SHOW
LOCATION IN
SECTION PLAT
NE NW SE

16. Size Hole below casing: in.

17. Static level ft. below casing top which is ft.
above ground level. Pumping level ft. when pumping at
gpm for hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	0-3'	
Hard Pan	20'	
Glacial Drift	38'	
Sand	42'	
Glacial Drift	55'	
Sand	60'	
<u>Sand</u>	<u>73'</u>	

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Joseph R. Reynolds DATE June 28, 1979